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OM protein - protein search, using sw model

Run on: December 19, 2002, 15:00:53 ; Search time 18 Seconds

(without alignments)
2143.388 Million cell updates/sec

Title: US-08-813-323b-1

Perfect score: 2994
Sequence: 1 MESSKMDAAGTLQPNPPLK.....IKDDTIFIKVIVDSLDLPD 567

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 245176 seqs, 68044064 residues

Total number of hits satisfying chosen parameters: 245176

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents_AA_New:*
1: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep:*
2: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/1/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/1/paa/US60_NEW_COMB.pep:*

Prod. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	837.5	28.0	501	US-10-283-500-4	Sequence 4, App1
2	688.5	23.0	519	US-09-724-676-53797	Sequence 53797, A
3	688.5	23.0	519	US-09-724-676-53797	Sequence 53797, A
4	682.5	22.8	308	US-09-724-676-84446	Sequence 84446, A
5	682.5	22.8	308	US-09-724-676-84446	Sequence 84446, A
6	653.5	21.8	536	US-09-724-676-53796	Sequence 53796, A
7	653.5	21.8	536	US-09-724-676-53796	Sequence 53796, A
8	640	21.4	409	US-10-283-500-2	Sequence 2, App1
9	560.5	18.7	470	US-09-724-676-53796	Sequence 89, App1
10	560.5	18.7	470	US-09-724-676-53796	Sequence 89, App1
11	259	8.7	46	US-09-716-536-10	Sequence 10, App1
12	205.5	6.9	600	US-10-197-666-112	Sequence 112, App
13	203	6.8	641	US-10-197-666-112	Sequence 112, App
14	203	6.8	641	US-10-197-666-112	Sequence 112, App
15	202	6.7	631	US-10-197-666-116	Sequence 116, App
16	200	6.7	631	US-10-197-666-116	Sequence 116, App
17	199	6.6	670	US-10-197-666-114	Sequence 114, App
18	186.5	6.2	72	US-10-203-138-11026	Sequence 11026, A
19	179	6.0	59	US-09-724-676-84447	Sequence 84447, A
20	179	6.0	59	US-09-724-676-84447	Sequence 84447, A
21	175	5.8	667	US-10-197-666-118	Sequence 118, App
22	147	4.9	2106	US-09-724-676-85182	Sequence 85182, A
23	147	4.9	2106	US-09-724-676-85182	Sequence 85182, A
24	147	4.9	2193	US-09-724-676-85181	Sequence 85181, A
25	147	4.9	2193	US-09-724-676-85181	Sequence 85181, A
26	147	4.9	2228	US-09-724-676-85180	Sequence 85180, A

27	147	4.9	2228	US-09-724-676-85180	Sequence 85180, A
28	147	4.9	2230	US-09-724-676-85179	Sequence 85179, A
29	147	4.9	2230	US-09-724-676-85179	Sequence 85179, A
30	147	4.9	3117	US-09-724-676-74707	Sequence 74707, A
31	147	4.9	3117	US-09-724-676-74707	Sequence 74707, A
32	147	4.9	3213	US-09-724-676-74706	Sequence 74706, A
33	147	4.9	3213	US-09-724-676-74706	Sequence 74706, A
34	146.5	4.9	1816	US-10-299-058-2	Sequence 2, App1
35	146.5	4.9	1816	US-10-299-058-2	Sequence 2, App1
36	144.5	4.8	987	US-09-724-676-85178	Sequence 85178, A
37	144.5	4.8	987	US-09-724-676-85178	Sequence 85178, A
38	144.5	4.8	1074	US-09-724-676-85177	Sequence 85177, A
39	144.5	4.8	1074	US-09-724-676-85177	Sequence 85177, A
40	144.5	4.8	1109	US-09-724-676-85175	Sequence 85175, A
41	144.5	4.8	1109	US-09-724-676-85175	Sequence 85175, A
42	144.5	4.8	1109	US-09-724-676-85176	Sequence 85176, A
43	144.5	4.8	1109	US-09-724-676-85176	Sequence 85176, A
44	144.5	4.8	1111	US-09-724-676-85174	Sequence 85174, A
45	144.5	4.8	1111	US-09-724-676-85174	Sequence 85174, A

ALIGNMENTS

RESULT 1
US-10-283-500-4
Sequence 4, Application US/10283500
GENERAL INFORMATION:
APPLICANT: Goedel, David V.
TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESSES:
ADDRESS: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/283,500
FILING DATE: 30-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/779,599
FILING DATE: 07-Jan-1997
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P0897C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/952-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-283-500-4
Query Match 28.0%; Score 837.5; DB 6; Length 501;
Best Local Similarity 33.5%; Pred. No. 4, 7e-71;
Matches 194; Conservative 88; Mismatches 196; Indels 99; Gaps 16;
7 MDAAGTLQPNPPLKIDPDRAGSVLPEDGGKREKVKV-VEDEKCKCEKRLVLCNPROT 65

[illegible]

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OY      397 RLMMDLRFVUETASTNGVLLMKIRDYKRRKQEAVMGKTLISVQPEYTGEGYKCAR 456
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      352 AMADLEKAYPFPAQCCHRYCSFCIASILIRKLOEAVAGRIPTISPAFYISRYIGKCLR 411
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY      457 VYLNGDGMGKGTSLSEFYIMRGEYDALLPWFCKQVTLMIMLDGSSSRHHGDAFKDPN 516
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      412 IYLNQDGTGKTHLSLFYFVYMGSPNDALLRWPFNNKVTLMLLDQ  NNNREHYIDAFRDVT 470
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY      517 SSSFKKPTGEMNTASGCPVFAQYVLE-NGYTIKDD 551
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      471 SSSFQRPVNDMNIASGCPLECPYSKWEAKNSYVRDD 506
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
US-09-724-676A-53796
: Sequence 53796, Application US/09724676A
: GENERAL INFORMATION:
: APPLICANT: CompuGen LTD
: TITLE OF INVENTION: Variants of alternative splicing
: FILE REFERENCE: 129181.4 CompuGen
: CURRENT APPLICATION NUMBER: US/09/724.676A
: NUMBER OF SEQ ID NOS: 97222
: SOFTWARE: PatentIn version 3.2
: SEQ ID NO 53796
: LENGTH: 536
: TYPE: PR1T
: ORGANISM: Homo sapiens
: US-09-724-676A-53796

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[illegible]

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1: Sequence 2 Application US/102833500
2: GENERAL INFORMATION:
3: APPLICANT: Goeddel, David V.
4:               Rolfe, Mike
5: TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
6: NUMBER OF SEQUENCES: 59
7: CORRESPONDENCE ADDRESS:
8: ADDRESSEE: Genentech, Inc.
9: STREET: 460 Point San Bruno Blvd
10: CITY: South San Francisco
11: STATE: California
12: COUNTRY: USA
13: ZIP: 94080
14: COMPUTER READABLE FORM:
15: MEDIUM TYPE: 3.5 Inch, 1.44 Mb floppy disk
16: COMPUTER: IBM PC compatible
17: OPERATING SYSTEM: PC-DOS/MS-DOS
18: SOFTWARE: Winpactin (Genentech)
19: CURRENT APPLICATION DATA:
20: APPLICATION NUMBER: US/10/283,500
21: FILING DATE: 30-Oct-2002
22: CLASSIFICATION: <Unknown>
23: PRIOR APPLICATION DATA:
24: APPLICATION NUMBER: US/08/779,599
25: FILING DATE: 07-Jan-1997
26: ATTORNEY/AGENT INFORMATION:
27: NAME: Dreger, Ginger R.
28: REGISTRATION NUMBER: 33,055
29: REFERENCE/DOCKET NUMBER: P0897C2
30: TELECOMMUNICATION INFORMATION:
31: TELEPHONE: 415/225-3216
32: TELEFAX: 415/952-9881
33: TELEX: 910/371-7168
34: INFORMATION FOR SEQ ID NO: 2:
35: SEQUENCE CHARACTERISTICS:
36: LENGTH: 409 amino acids
37: TYPE: Amino Acid
38: TOPOLOGY: Linear
39: SEQUENCE DESCRIPTION: SEQ ID NO: 2:
40: US-10-283-500-2

```

[illegible]


```

; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 46
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment
US-09-716-536-10

```

```

Query Match      8.7%; Score 259; DB 5; Length 46;
Best Local Similarity 100.0%; Pred. No. 1.1e-17;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 49 KYCKECLVLCNPKQTECGHRCFSCMAALLSSSPKCTACQEST 94
Db 1 KYCKECLVLCNPKQTECGHRCFSCMAALLSSSPKCTACQEST 46

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RESULT 12
US-10-197-666A-120
; Sequence 120, Application US/10197666A
; GENERAL INFORMATION:
; APPLICANT: ASAHU KASEI KABUSIKI KAISYA
; TITLE OF INVENTION: Ekl1 phosphorylation related gene
; FILE REFERENCE: PH-1548US
; CURRENT APPLICATION NUMBER: US/10/197,666A
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: JP 2001-218204
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: JP 2001-263450
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: JP 2002-012176
; PRIOR FILING DATE: 2002-01-21
; PRIOR APPLICATION NUMBER: US 60/305,884
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/316,304
; PRIOR FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: US 60/350,027
; PRIOR FILING DATE: 2002-01-23
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 120
; LENGTH: 600
; TYPE: PRF
; ORGANISM: Mus musculus
US-10-197-666A-120

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Query Match      6.9%; Score 205.5; DB 6; Length 600;
Best Local Similarity 21.3%; Pred. No. 4.8e-11;
Matches 102; Conservative 50; Mismatches 165; Indels 161; Gaps 19;

```

```

QY 10 ACTLDPNPPLKQDPGRGAGSVL-----VPEOGYKKEFKVTVEDKXK--CEKCRVLVC 60
Db 10 ACHLPLPLAPLPIRHGMRTTACMSLRSTFSLPEEEEPPLVFAEQPSVKLCQCCSYFK 69
QY 61 NPKQTECGHRCFSCMAALLSSSPKCTACQESTIKDVFEDNCKRITLALQYCRNEG 120
Db 70 DPVITTCGHTFCRC-----ALKSEKCPV-----DNA-----KLTVVVNN-- 104
QY 121 RGAQQLTLGHLVLHKNCO-----FELPLCLRADCKEYVLRKDLRDHEKACKY 171
Db 105 IAVAEQ--IGELFICRHGCHAGTGRGVEVDP--RCGPTITKLARKDH--ESSGDY 158
QY 172 REATGSHKSGQVPMKTLQKHEDTDCPCVYVSCPHKCSYQTLIRSELNHLSECVNAPSTC 231
Db 159 RP-----VCPNNPSCPLLKNNLBAHLKECEHI--KC 189
QY 232 SEKRYGVFOGTOQIKRAHEASAVQHNILKENSLEKVVSLLOHNESEVKNNSTIOSLH 291
Db 190 PHSKYGCGFTG-----MODTYETH 208
QY 292 NQICSEFIEIEROKEMLRNNEKSLIHLQRYVIDSOAEKLEKLEIKRIRPPQNNWEADSMKS 351

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Db 209 LECTRF-----EGIKFELQQTDDR--FHEMHV-----ALAQKQDETA-----FLRS 247
QY 352 SVESLQNRVTELE--SYDKSAGQAARNTGLLESQLSRHDQTLSDVHDIRLADMDLRFOVLET 410
Db 248 MGLKISEKIDQLEKSLDELKFDVLNDQSLSDLEMFRRDASMLNDELSHINARLNMGITL 307
QY 411 ASYNGVLTWKIDYKRRKQEAVMGKTLISYQPFYTYGFGYKMCARVYLNGDMGKGT 468
Db 308 GSYDPOQLFKCKG-----TFVGHGQPVWCILCYSMGDLLEFGSS 345

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RESULT 13
US-10-197-666A-112
; Sequence 112, Application US/10197666A
; GENERAL INFORMATION:
; APPLICANT: ASAHU KASEI KABUSIKI KAISYA
; TITLE OF INVENTION: Ekl1 phosphorylation related gene
; FILE REFERENCE: PH-1548US
; CURRENT APPLICATION NUMBER: US/10/197,666A
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: JP 2001-218204
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: JP 2001-263450
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: JP 2002-012176
; PRIOR FILING DATE: 2002-01-21
; PRIOR APPLICATION NUMBER: US 60/305,884
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/316,304
; PRIOR FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: US 60/350,027
; PRIOR FILING DATE: 2002-01-23
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 112
; LENGTH: 641
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-197-666A-112

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```

Query Match      6.8%; Score 203; DB 6; Length 641;
Best Local Similarity 21.5%; Pred. No. 9.1e-11;
Matches 96; Conservative 48; Mismatches 154; Indels 148; Gaps 18;

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```

QY 32 VPEOGYKKEFKVTVEDKXK--CEKCRVLVCNPKQTECGHRCFSCMAALLSSSPKCTRA 89
Db 80 LPREEEPPLVFAEQPSVKLCQCCSYFKRDPVITTCGHTFCRC-----ALKSEKCPV 134
QY 90 CQESIIRDKVFKDNCCKREITLALQYCRNEGCAEQTLGHLVLHKNCOFE---ETP 146
Db 135 -----DN-----VKLTVVVNN--IAVAEQ--IGELFICRHGCHAGTGRGVEVDP 172
QY 147 CLRAD---CEKRYLRKDLRDHEKACKYREATGSHKSGQVPMKTLQKHEDTDCPCVYVSC 203
Db 173 IFEYDPRGCPPTITKLARKDH--EGSCDYRP-----VRC 204
QY 204 PHKCSYQTLIRSELNHLSECVNAPSTCSEKRYGVFOGTOQIKRAHEASAVQHNILK 263
Db 205 PNNPSCPLLKNNLBAHLKECEHI--KCHRSKYGCGFTG----- 241
QY 264 EWSNLEKVTSLLOHNESEVKNNSTIOSLHNQICSEFIEIEROKEMLRNNEKSLIHLQRYVID 323
Db 242 -----NODTYETHLECTRF-----EGLEKPELQQTDDR--FHEMHV-- 274
QY 324 SQAEKLEKLEIKRIRPPQNNWEADSMKS SVESLQNRVTELE--SYDKSAGQAARNTGLLES 382
Db 275 -----ALAQKQDETA-----FLRSMGLKISEKIDQLEKSLDELKFDVLNDQSLKSE 320
QY 383 QLSRHDQTLSDVHDIRLADMDLRFOVLETASYNGVLTWKIDYKRRKQEAVMGKTLISVQ 442
Db 321 DMEFRRDASMLNDELSHINARLNMGITLSYDPOQLFKCKG----- 361

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Oy 443 PFTYGYFGYKMCARVYLNGDMGKGT 468
 Db 362 -TFVGHOGPVMCLCVYSMGDLFSGS 386

RESULT 14
 US-10-197-666A-150
 ; Sequence 150, Application us/10197666A
 ; GENERAL INFORMATION:
 ; APPLICANT: ASAH KASRI KABUSIKI KAISTA
 ; TITLE OF INVENTION: Eiki phosphorylation related gene
 ; FILE REFERENCE: PH-154805
 ; CURRENT APPLICATION NUMBER: US/10/197,666A
 ; PRIORITY FILING DATE: 2002-11-18
 ; PRIOR APPLICATION NUMBER: JP 2001-218204
 ; PRIOR FILING DATE: 2001-07-18
 ; PRIOR APPLICATION NUMBER: JP 2001-263450
 ; PRIOR FILING DATE: 2001-08-31
 ; PRIOR APPLICATION NUMBER: JP 2002-012176
 ; PRIOR FILING DATE: 2002-01-21
 ; PRIOR APPLICATION NUMBER: US 60/305,884
 ; PRIOR FILING DATE: 2001-07-18
 ; PRIOR APPLICATION NUMBER: US 60/316,304
 ; PRIOR FILING DATE: 2001-09-04
 ; PRIOR APPLICATION NUMBER: US 60/350,027
 ; PRIORITY FILING DATE: 2002-01-23
 ; NUMBER OF SEQ ID NOS: 156
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 150
 ; LENGTH: 670
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-197-666A-150

Query Match 6.8%; Score 203; DB 6; Length 670;
 Best local similarity 21.5%; Pred. No. 9.7e-11;
 Matches 96; Conservative 48; Mismatches 154; Indels 148; Gaps 18;
 Oy 32 VPBGGYKKEFKVYEDYK--CEKCRVLVLCNPKQTEGHCFFSCMAALLSSSPCTA 89
 Db 109 LPEEEREPRLVFAQPSVKLCCQCSVFPDPTTTCGHTFCRC-----ALKSEKCPV 163
 Oy 90 CGESTIKDVFKNCKCKREIILALQYCCNREGCAEOLTLGLHLVHLKNECFE--ELP 146
 Db 164 -----DN-----VKLTGVVNN--IAVAEQ--IGELFIHCRHCGRVAGSGKPP 201
 Oy 147 CLRAD--CKEKVLKRDLDHVEKACKRYRATGSHCKSQVPMILQKHEDTDPCVYVSC 203
 Db 202 IFEVDPGRCPTIKLSARKDH-EGSCDVR-----VRC 233
 Oy 204 PHKCSVOTLLSELSAHLSECVNAPSTGCFKRYGCVPGTNOQTKAHEASSAVQHVNLK 263
 Db 234 PNPSPCPRLRMNLEAHLKECEHI--KCPHSHKYGCTFIG----- 270
 Oy 264 EWSNLSLEKVSILQNESVEKKKSIQSLHNOICSEIEIEIEKOKEMLRNNEKSLIHLORVID 323
 Db 271 -----NODTYETHLETCP---EGLEKEFLQOTDTR-FHEMHV-- 303
 Oy 324 SOAEKLEKLEIRPFQNMWEADSMKSSVESLQNRVTELE-SVDSAGQAARNTGLLES 382
 Db 304 -----ALAQKDEIA-----FLRSMGLKSEKIDQLEKLELKFVLDENQSKLSE 349
 Oy 383 QLSRHDTLSVHDIRLADMOLRFOVLETASYNGVLTIKINDYRRKROEAVMGKTLISLYSQ 442
 Db 350 DLMEFRDASHLNDLSHINARLNMGLTGSYDPOQIFCKG----- 390
 Oy 443 PFTYGYFGYKMCARVYLNGDMGKGT 468
 Db 391 -TFVGHOGPVMCLCVYSMGDLFSGS 415

RESULT 15
 US-10-197-666A-116

Sequence 116, Application us/10197666A
 ; GENERAL INFORMATION:
 ; APPLICANT: ASAH KASRI KABUSIKI KAISTA
 ; TITLE OF INVENTION: Eiki phosphorylation related gene
 ; FILE REFERENCE: PH-154805
 ; CURRENT APPLICATION NUMBER: US/10/197,666A
 ; PRIORITY FILING DATE: 2002-11-18
 ; PRIOR APPLICATION NUMBER: JP 2001-218204
 ; PRIOR FILING DATE: 2001-07-18
 ; PRIOR APPLICATION NUMBER: JP 2001-263450
 ; PRIOR FILING DATE: 2001-08-31
 ; PRIOR APPLICATION NUMBER: JP 2002-012176
 ; PRIOR FILING DATE: 2002-01-21
 ; PRIOR APPLICATION NUMBER: US 60/305,884
 ; PRIOR FILING DATE: 2001-07-18
 ; PRIOR APPLICATION NUMBER: US 60/316,304
 ; PRIOR FILING DATE: 2001-09-04
 ; PRIOR APPLICATION NUMBER: US 60/350,027
 ; PRIORITY FILING DATE: 2002-01-23
 ; NUMBER OF SEQ ID NOS: 156
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 116
 ; LENGTH: 631
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-10-197-666A-116

Query Match 6.7%; Score 202; DB 6; Length 631;
 Best local similarity 21.3%; Pred. No. 1.1e-10;
 Matches 101; Conservative 48; Mismatches 174; Indels 152; Gaps 17;
 Oy 4 SKKMDAGTLQPNPLKLPDRGAGSVLPEEGYKKEFKVYEDYKCEKCRVLVLCNPK 63
 Db 44 TKAADGTGYXQHRRTPPSSSTLAVSPRDEGKMPVLFADQPSVKLCCQCSVFPDPT 103
 Oy 64 QTEGHCFFSCMAALLSSSPKCTACQESTIKDVFKNCKCKREIILALQYCCNREGRC 123
 Db 104 ITTCGHTFCRC-----ALKSEKCPV-----DNA-----KLTGVVNN--IAV 138
 Oy 124 ABOLTLGHLVHLKNECO-----FEELPCLRADCKEVLKRDLDHVEKACKRYREA 174
 Db 139 AEO--IGELFIHCRHCGAAGTGKRGVFEVDP---RCGPTTIKLSARKDH-ESSCDVR- 191
 Oy 175 TCSHCKSOVPMILKQKHEDTDPCVYVSCPHKCSVOTLLSELSAHLSECVNAPSTGCFK 234
 Db 192 -----VRCPPNPSPCPRLRMNLEAHLKECEHI--KCPHS 223
 Oy 235 RYCGVFOGTNOQTKAHEASSAVQHVNLKEMNSLEKVSILQNESVEKKKSIQSLHNOI 294
 Db 224 KYGCTFIG-----NODTYETHLET 242
 Oy 295 CSFEIEIEROKEMLRNNEKSLIHLORVIDSOAEKLEKLEIRPFQNMWEADSMKSSVE 354
 Db 243 CRF-----EGLEKEFLQOSDR-FHEMHV-----ALAQKDEIA-----FLRSMGL 281
 Oy 355 SLQNRVTELE-SVDSAGQAARNTGLLESQLSRHDTLSVHDIRLADMOLRFOVLETASY 413
 Db 282 KLSERKNQLEKSLDLKRDVLDENQSKLSEDLMEFRDASHLNDLSHINARLNMGLTGSY 341
 Oy 414 NGVLIMKIRDYKRRKROEAVMGKTLISLYSQPFTYGYFGYKMCARVYLNGDMGKGT 468
 Db 342 DPOQIFCKG-----TFVGHOGPVMCLCVYSMGDLFSGS 376

Search completed: December 19, 2002, 15:05:20
 Job time: 21 secs

